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Institute for Metallic Materials

- Composition converter -

On this page you can calculate the percental composition of compounds starting from atomic- or mass percent and yielding the other one.

(for example for the composition Cu92.5wt-% Ag7.5wt-%)

| | | | | | | | | |
|----|-------|----|-------|---|-------|--|--|--------------------------|
| Cu | 20.00 | Sn | 70.00 | O | 10.00 | | | atomic to mass percent ▼ |
|----|-------|----|-------|---|-------|--|--|--------------------------|

Composition (atomic-percent): Cu 20.0000 Sn 70.0000 O 10.0000

Composition (mass-percent): Cu 13.0495 Sn 85.3077 O 1.6428

The program runs on Linux 2.2.19-7.0.1smp. For portable solutions and ports to other systems, or if you run into trouble please contact [jens](#)

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| | | | | | | | | |
|----|-------|----|-------|---|-------|--|--|------------------------|
| Cu | 80.00 | Sn | 10.00 | O | 10.00 | | | atomic to mass percent |
|----|-------|----|-------|---|-------|--|--|------------------------|

Composition (atomic-percent): Cu 80.0000 Sn 10.0000 O 10.0000

Composition (mass-percent): Cu 79.0548 Sn 18.4571 O 2.4880

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| | | | | | | | | |
|----|-------|----|-------|---|------|--|--|------------------------|
| Cu | 29.70 | Sn | 70.00 | O | 0.30 | | | atomic to mass percent |
|----|-------|----|-------|---|------|--|--|------------------------|

| | | |
|-----------|-------|--------|
| calculate | reset | rezero |
|-----------|-------|--------|

Composition (atomic-percent): Cu 29.7000 Sn 70.0000 O 0.3000

Composition (mass-percent): Cu 18.5023 Sn 81.4506 O 0.0471

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| | | | | | | | | |
|----|-------|----|-------|---|------|--|--|------------------------|
| Cu | 80.00 | Sn | 19.70 | O | 0.30 | | | atomic to mass percent |
|----|-------|----|-------|---|------|--|--|------------------------|

Composition (atomic-percent): Cu 80.0000 Sn 19.7000 O 0.3000

Composition (mass-percent): Cu 68.4516 Sn 31.4837 O 0.0646

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

| | | | | | | | | |
|----|-------|----|-------|---|-------|--|--|--------------------------|
| Cu | 20.00 | Sn | 30.00 | O | 50.00 | | | atomic to mass percent ▼ |
|----|-------|----|-------|---|-------|--|--|--------------------------|

Composition (atomic-percent): Cu 20.0000 Sn 30.0000 O 50.0000

Composition (mass-percent): Cu 22.5677 Sn 63.2273 O 14.2050

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

| | | | | | | | | |
|----|-------|----|-------|---|-------|--|--|--------------------------|
| Cu | 30.00 | Sn | 20.00 | O | 50.00 | | | atomic to mass percent ▼ |
|----|-------|----|-------|---|-------|--|--|--------------------------|

Composition (atomic-percent): Cu 30.0000 Sn 20.0000 O 50.0000

Composition (mass-percent): Cu 37.5261 Sn 46.7270 O 15.7470

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

| | | | | | | | | |
|----|-------|----|-------|---|------|--|--|--------------------------|
| Cu | 50.00 | Sn | 49.70 | O | 0.30 | | | atomic to mass percent ▼ |
|----|-------|----|-------|---|------|--|--|--------------------------|

Composition (atomic-percent): Cu 50.0000 Sn 49.7000 O 0.3000

Composition (mass-percent): Cu 34.9885 Sn 64.9587 O 0.0529

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(for example for the composition Cu92.5wt-% Ag7.5wt-%)

| | | | | | | | | |
|----|-------|----|-------|---|-------|--|--|------------------------|
| Cu | 40.00 | Sn | 35.00 | O | 25.00 | | | atomic to mass percent |
|----|-------|----|-------|---|-------|--|--|------------------------|

[calculate](#)[reset](#)[rezero](#)

Composition (atomic-percent): Cu 40.0000 Sn 35.0000 O 25.0000

Composition (mass-percent): Cu 35.8209 Sn 58.5423 O 5.6368

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EAST

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|-----------------|---|------------------|---------|------------------|
| L1 | 2 | ("6416571").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 15:41 |

EAST

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L1 | 4755 | (428/469 or 428/908.8 or 24/1). ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:18 |
| L2 | 348 | 1 and (copper or cu) and (tin or sn) and oxygen | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:18 |
| L3 | 154 | 2 and ((copper or cu) and (tin or sn) and oxygen) WITH (coating or coatings or layer or layers or film or films) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:20 |
| L4 | 1 | 3 and (plating or electroplate or electroplating) WITH ((copper or cu) and (tin or sn) and oxygen) WITH (alloy or alloys) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:33 |

EAST

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| L1 | 38 | (plating or electroplate or electroplating) WITH ((copper or cu) and (tin or sn) and oxygen) WITH (alloy or alloys) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:36 |
| L2 | 33 | 1 and (coating or coatings or layer or layers or film or films) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:44 |

EAST

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|-----------------|---|------------------|---------|------------------|
| L1 | 3868 | (428/469).ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/10/28 16:47 |